

## ABSTRACTION

**Ahmad Abdussalam**, 2017, NIT: 50134927.T, “*Damage Analysis of Diesel Generator Diesel Engine Exhaust Valve in MV. BEA SCHULTE*”, Program Diploma IV, Technical, Merchant Marine Polytechnic of Semarang, Supervising I: Abdi Seno, M.Si., M.Mar.E and Supervising II: Capt. H. Suherman, M.Mar

A diesel engine is an internal combustion engine in which air is compressed to a high enough temperature to ignite diesel fuel injected into a cylinder, where combustion and emission drive the piston that converts the chemical energy in fuel into mechanical energy. The availability of a power source is absolute for the smooth operation of the ship, for example for lighting, navigation equipment and auxiliary engine, and others. The condition of the exhaust valve in the diesel generator is very influential on the condition of the generator. The existence of flue gas valve damage can affect the condition of the operation of diesel generator, so the condition of the exhaust valve must always be maintained.

Research method that writer use in preparation of this thesis is descriptive qualitatif research method. In this case the authors use the SWOT method as a data analysis technique to analyze the existing problems in the diesel generator, which factors are causing the damage of the exhaust valve diesel generator engine, the impact and what efforts are made to overcome the factors of the problem by identifying various factors systematically against strenghts, weaknesses, opportunities, and threats from the environment to formulate the strategy to be taken.

Based on the results of research that has been done on the MV. BEA SCHULTE on January 3, 2016 up to November 3, 2016, it can be concluded that the damage of diesel generator exhaust valve is caused by two factors, namely 1) unsuitable valve gap caused by the operation and lack of inspection. 2) the use of low quality fuels. To overcome these factors can be adjusted exhaust gas supply according to time, as well as good screening on low-quality fuel.

Keywords: *diesel generator, exhaust valve, SWOT.*